

CLAIMS

1. A method in a suction device, such as a mechanical pipette, comprising a body (1) and an associated end part (2) with an open distal end directed away from the body (1) for removably attaching a disposable tip (3) enclosing a sample space (11) for receiving a liquid sample, the end part (2) of the suction device enclosing a cylinder space (4) containing a reciprocatingly movable means (6), a plunger, for changing the volume of the cylindrical space (4) for receiving a sample to the tip (3) and removing it therefrom, and to which end part (2) of the suction device is adapted a barrier means (12) to close an opening (5) in the end part (2),
characterized in that the barrier means (12) adapted to the end part (2) of the suction device are detached by moving the plunger (6) first in the direction of the opening (5) in the end part (2) of the suction device into contact with the barrier means (12) and then by moving the plunger (6) in the direction of the said opening (5) for removing the barrier means (12) from the end part (2) of the suction device.
2. A method according to claim 1, **characterized** in that the suction device is provided with means (8,9) which limit the movement of the plunger (6) in the cylindrical space (4) and which can be brought to at least one such position in which the plunger (6) can be brought into contact with the barrier means (12) adapted to the end part (2) of the suction device for detaching the barrier means (12) from the end part (2) of the suction device.
3. A method according to claim 1, **characterized** in that the means (8,9) for limiting the movement of the plunger (6) comprise means (10) intended for detaching the removably to the end part (2) of the suction device attached disposable tip (3) which are positioned in such a position that the plunger (6) can be brought into contact with the barrier means (12) adapted to the end part (2) of the suction device.

4. A method in the suction device, such as a mechanical pipette, comprising a body (1) and an associated end part (2) with an open distal end directed away from the body (1) for removably attaching a disposable tip (3) enclosing a sample space (11) for receiving a liquid sample, the end part (2) of the suction device enclosing a cylinder space (4) containing a reciprocatingly movable means (6), a plunger, for changing the volume of the cylindrical space (4) for receiving a sample to the tip (3) and removing it therefrom, and to which end part (2) of the suction device is adapted a barrier means (12) to close an opening (5) in the end part (2), **characterized** in that the barrier means (12) adapted to the end part (2) of the suction device are detached by moving the plunger (6) first in the direction of the opening (5) in the end part (2) of the suction device in that way that a telescopic extension of the plunger (6) comes into contact with the barrier means (12) and then by moving the plunger (6) in the direction of the said opening (5) for removing the barrier means (12) from the end part (2) of the suction device.
5. A method according to claim 4, **characterized** in that the suction device is provided with means (8, 9) which limit the movement of the plunger (6) in the cylindrical space (4) and which means can be brought to at least one such position in which the telescopic extension of the plunger (6) can be brought into contact with the barrier means (12) adapted to the end part (2) of the suction device for removing the barrier means (12) from the end part (2) of the suction device.
6. A method according to claim 5, **characterized** in that the means (8, 9) for limiting the movement of the plunger (6) comprise means (10) intended for removing the disposable tip (3) attached removably to the end part (2) of the suction device which means are positioned in such a position that the telescopic extension of the plunger (6) can be brought into contact with the barrier means (12) adapted to the end part (2) of the suction device.
7. A method according to one of claims 1-6, **characterized** in that the suction device is multichannel.

8. A suction device comprising a body (1) and an associated end part (2) with an open distal end directed away from the body (1) for removably attaching a disposable tip (3) enclosing a sample space (11) for receiving a liquid sample, the end part (2) of the suction device enclosing a cylinder space (4) containing a reciprocatingly movable means (6), a plunger, for changing the volume of the cylindrical space (4) for receiving a sample to the tip (3) and removing it therefrom, and means (10) for detaching the disposable tip (3) removably attached to the end part (2), **characterized** in that the suction device is provided with means (8, 9) which limit the movement of the plunger (6) in the cylindrical space (4) and which can be brought to at least one position in which the plunger (6) can be brought into contact with the barrier means (12) adapted to the end part (2) of the suction device for detaching the barrier means (12) from the end part (2) of the suction device.
9. A suction device according to claim 8, **characterized** in that the means (10) in the suction device for detaching the disposable tip (3) from the end part (2) of the suction device can be brought to a position in which they limit the movement of the plunger (6) in the cylindrical space (4).
10. A suction device according to claim 8 or 9, **characterized** in that the suction device is multichannel.